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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,576	12/03/2003	Kazuhiro Kato	031301	3454
23850 7	7590 01/25/2005		EXAM	IINER
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			THOMAS, ERIC W	
1725 K STREET, NW SUITE 1000		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20006			2831	
			DATE MAILED: 01/25/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/725,576	KATO ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Eric W Thomas	2831				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE I - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 03 D	<u>ecember 2003</u> .					
2a) <u></u> □	This action is FINAL . 2b)⊠ This	action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)⊠	4) ⊠ Claim(s) <u>1-4</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,2 and 4</u> is/are rejected. 7) ⊠ Claim(s) <u>3</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on <u>03 December 2003</u> is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119		,				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2)	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 12/03/03.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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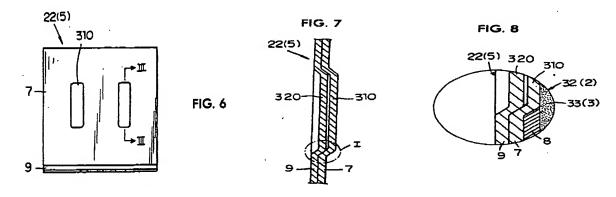
DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakagawa et al. (US 6,046,902).



Nakagawa et al. disclose in fig. 6-8, an electronic component wherein a lead frame is attached to an element with an electrically conductive adhesive (8), the electronic component being characterized in that the lead frame has an adhesive filling portion (see fig. 8) formed at a part thereof having a lower surface opposed to the element, the filling portion having inside thereof filled with the conductive adhesive (col. 3 lines 30-35).

Regarding claim 2, Nakagawa et al. disclose the adhesive filling portion is a cavity formed in the lead frame.

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3. Claims 1-2, and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Aoyama (US 6,188,566).

Aoyama discloses in fig. 1, 3A-3F, an electronic component wherein a lead frame is attached to an element with an electrically conductive adhesive (7 –resin (including melted portion), the electronic component being characterized in that the lead frame has an adhesive filling portion (6) formed at a part thereof having a lower surface opposed to the element, the filling portion having inside thereof filled with the conductive adhesive (including melted portion).

Regarding claim 2, Aoyama discloses the adhesive filling portion is a cavity formed in the lead frame.

Regarding claim 4, Aoyama discloses the electronic component is a solid electrolytic capacitor and the element is a capacitor element.

Allowable Subject Matter

4. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art does not teach or fairly suggest (taken in combination with the other claimed features) a plurality of grooves intersecting one another and divided into a plurality of frames segments by the grooves (claim 3).

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

6,751,086 – discloses the claimed invention.

6,451,622 – discloses an electronic device comprising a lead frame having an electroconductive adhesive.

6,813,141 – discloses a solid electrolytic capacitor comprising a lead frame wherein the lead frame forms a cavity.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric W Thomas whose telephone number is 571-272-1985. The examiner can normally be reached on M,Tu,Sat 9 am - 9:30 pm; W, Th, F 6 pm -10:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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1/15/05

Eric W Thomas Examiner Art Unit 2831

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